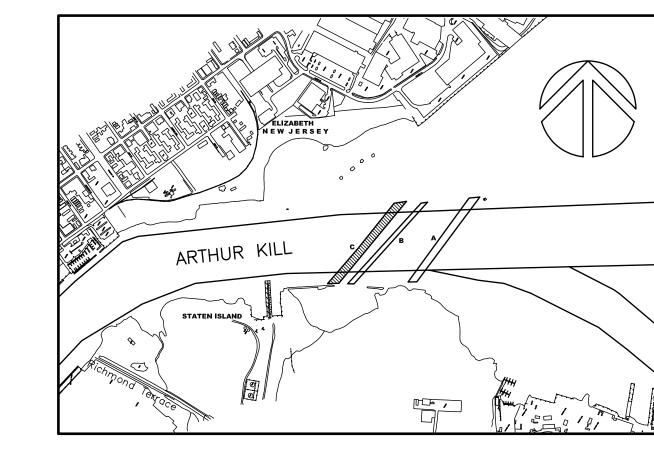


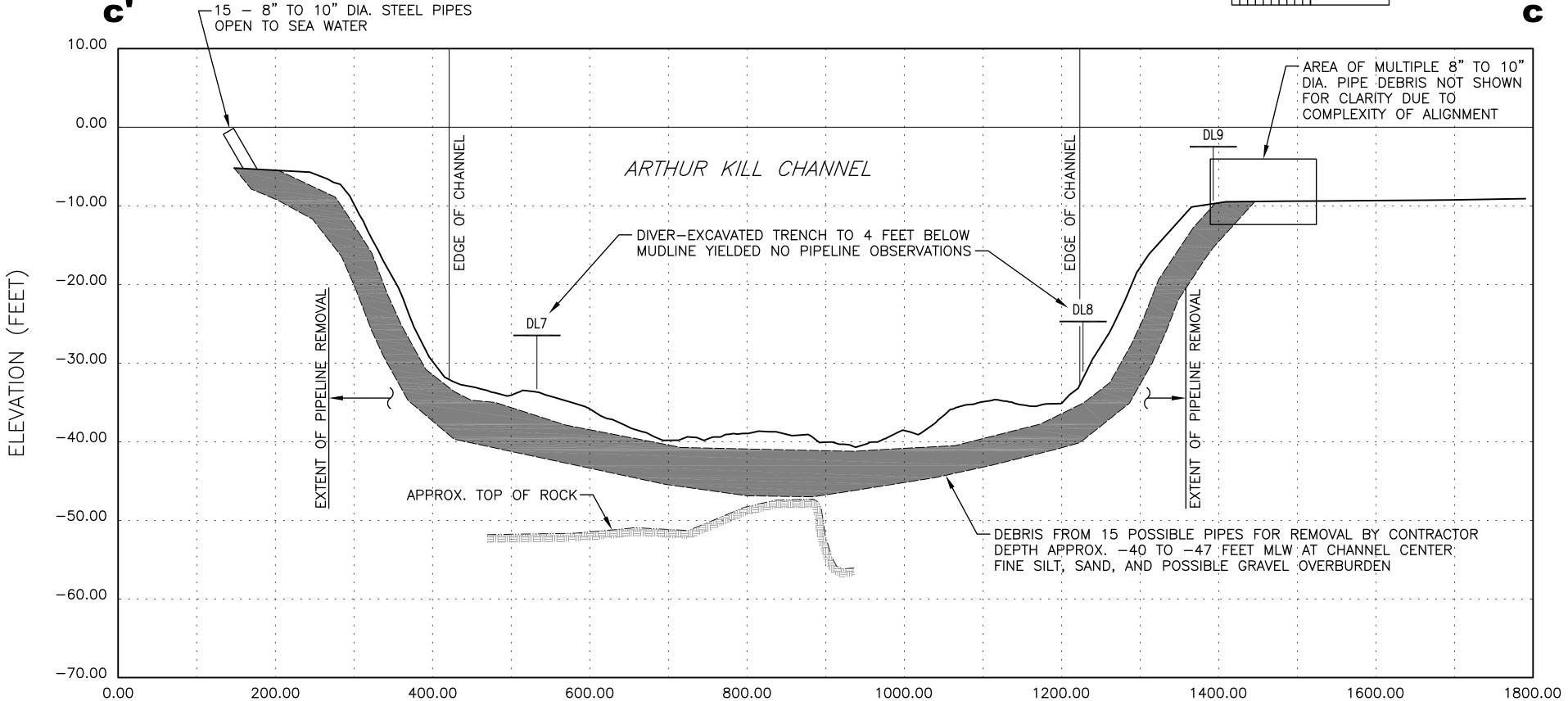
UTILITY DEBRIS LOCATION PLAN "C"

SCALE: 1"=100'-0"



KEY PLAN

SCALE: 1"=1000'-0"



SECTION c'-c

HORIZ. SCALE: 1"=100'-0"

VERT. SCALE: 1"=10'-0"

TABLE 1									
			PIPELINI	E INFORMATION					
PIPELINE	ASSUMED ORIGIN	REFERENCE DRAWING/DOCUMENTS	PIPELINE TYPE (PIPELINE DIAMETERS ARE SHOWN AS NOMINAL)	FIELD OBSERVATIONS OF NOTE	CAPPED/OPEN/INTACT	PRODUCT PRESENT?	APPROXIMATE LENGTH OF PIPE FOR REMOVAL	APPROX. BARE PIPE WEIGHT (TONS)	
(12)	ESSO/STANDARD	COASTAL PIPELINE CO LOCATION PLAN AND HISTORICAL DATA.CAL	STEEL; 8" TO 10" DIAMETER; NO FURTHER INFORMATION	PIPELINE BUNDLE OF 12 LINES OBSERVED ON SOUTH SLOPE OF AK; SOME PIPELINES, WITH EAST—WEST TREND, ON NORTH SLOPE	CUT/OPEN	UNLIKELY	1475'	443	

TABLE 2								
LOCATIONS OF KNOWN PIPE DEBRIS TO BE REMOVED								
DIVE LOCATION	PIPELINE	LOCATION	COORDINATES					
DL9	1	ENTERING MUDLINE	N 661032/E 582386					
DL9	2	ENTERING MUDLINE	N 661026/E 582412					
DL9	3	ENTERING MUDLINE	N 661024/E 582424					
DL9	4	ENTERING MUDLINE	N 661051/E 582450					
DL9	5	ENTERING MUDLINE	N 661035/E 582325					
DL9	6	ENTERING MUDLINE	N 661045/E 582343					
DL9	7	ENTERING MUDLINE	N 661053/E 582347					
DL9	8	ENTERING MUDLINE	N 661009/E 582340					
DL9	9	ENTERING MUDLINE	N 661007/E 582333					
DL9	10	ENTERING MUDLINE	N 661006/E 582366					
DL9	11	ENTERING MUDLINE	N 661027/E 582347					
DL12	MULTIPLE (12)	20' ABOVE MUDLINE	N 660134/E 581669					

LE 3
AL AREA "C" BOUNDARY
EASTING
582303
582419
581645
581522

- 1. HORIZONTAL DATUM IS BASED ON THE NEW JERSEY STATE PLANE FEET NORTH AMERICAN DATUM OF 1983 (NAD 83).
- 2. ALL CONTOURS ARE IN FEET RELATIVE TO U.S. ARMY CORPS OF ENGINEERS MEAN LOW WATER DATUM, WHICH IS 2.33 FEET BELOW NGVD 29.
- 3. BATHYMETRIC CONTOURS DEVELOPED FROM U.S. ARMY CORPS OF ENGINEERS HYDROGRAPHIC SURVEY DRAWING FILE No. 1245A, DATED JUNE 19, 2003. AND CAN ONLY REFLECT BOTTOM CONDITIONS AT TIME OF SURVEY.
- 4. DIVE LOCATIONS NUMBERED DL1 THROUGH DL12 REPRESENT LOCATIONS OF UNDERWATER INVESTIGATION PERFORMED BY A U.S. ARMY CORPS OF ENGINEERS CONTRACTOR IN AUGUST AND SEPTEMBER 2004.
- 5. UTILITY REMOVAL AREAS "A" AND "B" REPRESENT GROUPING OF PIPELINES THAT ARE SIMILAR IN LOCATION, ORIENTATION, AND/OR CONSTRUCTION, AND ARE TO BE REMOVED UNDER THIS CONTRACT.
- 6. UTILITY DEBRIS REMOVAL AREA "C" REPRESENTS A GROUPING OF PIPE DEBRIS THAT IS IN A SIMILAR LOCATION, ORIENTATION, AND/OR CONSTRUCTION, AND IS TO BE REMOVED.
- 7. INTERPRETATIONS OF CROSS—SECTIONS a'-a, b'-b, AND c'-c HAVE BEEN DERIVED FROM HYDROGRAPHIC SURVEY DATA, SIDESCAN SONAR IMAGERY, MARINE MAGNETOMETER DATA, SHALLOW SEISMIC REFLECTION DATA, DIVER OBSERVATIONS, AND HISTORICAL DOCUMENTATION.
- 8. SECTIONS a'-a, b'-b, AND c'-c SHOULD BE ASSUMED BY THE CONTRACTOR TO BE APPROXIMATE PROJECTIONS THAT ARE REPRESENTATIVE OF THE GENERAL CONDITIONS OF THE EXTENTS DEFINED BY AREAS A. B. AND C. MULTIPLE PIPELINES IN EACH CROSSING AREA ARE LIKELY TO OCCUR AT DIFFERENT ELEVATIONS AND X-Y LOCATIONS WITHIN EACH CROSSING AREA AS INDICATED IN SECTIONS a'-a, b'-b, AND c'-c.
- 9. THE MAGNETOMETER PLAN ON DRAWING C-408 IS A CONTOUR MAP OF DATA COLLECTED JULY 2004 BY A U.S. ARMY CORPS OF ENGINEERS CONTRACTOR. DENSELY SPACED CONTOUR LINES REPRESENT DISTORTIONS IN THE LOCAL MAGNETIC FIELD THAT ARE CAUSED BY FERROUS OBJECTS SUCH AS STEEL OR WROUGHT IRON PIPELINES.
- 10. THE SIDESCAN SONAR IMAGE PLAN ON DRAWING C-408 IS A MOSAIC OF SIDESCAN SONAR IMAGERY COLLECTED APRIL-JUNE 2004 BY A U.S. ARMY CORPS OF ENGINEERS CONTRACTOR. THE IMAGERY IS PRESENTED AS ILLUMINATED FROM THE SOUTH SO THAT AREAS OF HIGH REFLECTIVITY ARE BRIGHT AND AREAS OF LOW REFLECTIVITY ARE DARK.
- 11. LOCATIONS OF KNOWN PIPELINES TO BE REMOVED HAVE BEEN ASCERTAINED BY DIVERS UTILIZING PLUMB LINES AND DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS).
- 12. PIPELINES OBSERVED BY DIVERS AND LISTED IN TABLE 1 HAVE BEEN ASSOCIATED WITH KNOWN HISTORIC PIPELINES BASED ON INTERPRETATIONS THAT DRAW UPON APPROXIMATE LOCATION, SIZE, AND CONDITION ON THE LINES.
- 13. PREDICTIONS AS TO THE HISTORY OR CONTAINED PRODUCT ARE ONLY ESTIMATES. THE CONTRACTOR MUST EXERCISE CAUTION WHEN HANDLING ANY LINE FOR REMOVAL IN ORDER TO PREVENT SPILLS AND/OR DAMAGE TO IN-SERVICE UTILITIES OR STRUCTURES.

					Mark
Date: Rev. 11/11/04 0	Design file no.	Drawing code:	File name: AK2&AK3C-407XXX	Plot date: 11/24/04	Plot scale: 1=1
Designed by: J.S.	Dwn by: Ckd by: S.W.	Reviewed by:	Submitted by:		Chief, Arch. Branch
U.S. ARMY ENGINEER DIVISION	OCEAN AND COASTAL Ocean and Coastal Consultants, Inc.	35 Corporate Drive Trumbull. CT 06611	E D	CONSULTANTS, INC.	

US Army Corps of Engineers

New York District

Sheet reference

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